Mary Bellucke

MIDDLESEX UNIVERSITY

SCHOOL OF VETERINARY MEDICINE

CATALOGUE

1944-1945

WALTHAM MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the Faculty of the School of Veterinary Medicine; announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct; and information concerning the Preveterinary Course.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to be the best advantage of the University.

MIDDLESEX UNIVERSITY

Catalogue
of the
School of Veterinary Medicine
and of the
Preveterinary Course

1944-1945

WALTHAM MASSACHUSETTS

Veterinary Calendar

(This calendar applies both to the veterinary and to the pre-veterinary courses. The accelerated wartime program has resulted in the elimination of the summer vacation and of certain holidays.)

1944		
Jan. 3	Monday	Classes resumed after Christmas recess.
Feb. 22	Tuesday	Washington's birthday, a holiday.
Mar. 6	Monday	Commencement Exercises.
	Recess between School Years	
Mar. 20 to 25	Monday to Saturday	First instalment of tuition due.
Mar. 27 to 31	Monday to Friday	Supplementary examinations.
April 5	Wednesday	Registration, first semester begins.
June 12 to 17	Monday to Saturday	Second instalment of tuition due.
July 4	Tuesday	Independence Day, a holiday.
July 29	Saturday	First semester ends.
July 31 to Aug. 5	Monday to Saturday	Recess between semesters.
Aug. 7	Monday	Second semester begins.
Aug. 28 to Sept. 2	Monday to Saturday	Third instalment of tuition due.
Sept. 4	Monday	Labor Day, a holiday.
Nov. 11	Saturday	Armistice Day, a holiday.
Nov. 23 to 26	Thursday to Sunday	Thanksgiving Recess.
Dec. 4	Monday	Commencement Exercises.
	Recess between School Years	
Dec. 18 to 23	Monday to Saturday	First instalment of tuition due.
1945		
Jan. 2 to 6	Tuesday to Saturday	Supplementary examinations.
Jan. 10	Wednesday	Registration, first semester begins.

The Trustees of Middlesex University

Samuel H. Wragg, *President*	Needham
Frank L. Whipple, *First Vice President*	Lynn
John M. Russell, *Second Vice President*	Watertown
Alton L. Miller, *Treasurer*	Brookline
Harold L. Musgrave, *Secretary*	Revere
Earl J. Arnold	Waltham
Arno M. Bommer	Medford
Ernest R. Caverly	Brookline
Pierre Dumaine	Waltham
Howard Charles Gale	Beverly
Rose F. Jannini	Winthrop
Frank Kingdon	New York City
Charles E. Reidt	Waltham
Hugh Wallace Smith	Melrose
John Hall Smith	Waltham
Allan H. Sturges	Boston

EXECUTIVE COMMITTEE OF THE TRUSTEES

Alton L. Miller, *Chairman;* Harold L. Musgrave, *Secretary;* Samuel H. Wragg; Ernest R. Caverly, Pierre Dumaine.

Officers of Administration

Dean
Edgar A. Crossman, M.D.V.

Registrar and Counsel
C. Ruggles Smith, A.B., A.M., Litt.B., LL.B.

Dean of the Preveterinary Faculty
Joseph I. Cheskis, Ph.D.

Bursar
Marjorie K. Faxon

Librarian
Sigmund Hirsch, Ph.D.

Secretary to the Dean
Frances McFaden

Secretary to the Registrar
Mary Belluche

School of Veterinary Medicine

Small-Animal Hospital

Faculty of The School of Veterinary Medicine

EDGAR A. CROSSMAN, *Dean* . *Animal Industry*
M.D.V., Harvard University

ALBERTO ASCOLI . . . *Bacteriology, Immunology*
M.D., University of Vienna; M.D., University of Pavia

LEO WEISZ . . . . . *Medicine, Surgery, Obstetrics*
D.V.M., V.S., University of Vienna

TIMOTHY P. WHITE . . *Anatomy*
D.V.M., Kansas City Veterinary College

WILLIAM WHITE . . . *Animal Industry*
M.D.V., Harvard University

W. M. SIMPSON . . . *Medicine*
V.S., Montreal Veterinary College

MARTIN M. KAPLAN . . *Preventive Medicine, Public Health*
A.B., V.M.D., M.P.H., University of Pennsylvania

WILLIAM M. VOGEL . . . *Medicine, Surgery, Obstetrics*
D.V.M., Ohio State University

TIT WONG . . . . . *Pathology*
B.S., University of Ling Nan, China;
M.S., Cornell University; D.V.M., Kansas State College

ELIHU BOND . . . . . *Pathology*
D.V.M., Middlesex University

DAVID LYMAN DAVIDSON . . *Chemistry*
B.S., M.S., Ph.D., Brown University

JOSEPH BECK . . . . . *Physiology, Pharmacology*
Ph.G., Brooklyn College of Pharmacy;
D.V.M., Middlesex University

HANS ELIAS . . . . . *Anatomy*
Ph.D., University of Giessen

JULIAN M. KARASOFF . . *Anatomy*
D.V.M., Middlesex University

LAWRENCE F. BRODERICK . *Animal Industry*
B.S., Massachusetts State College

Rosa Kubin . . . . *Medicine*
Ph.D., University of Vienna

Harold Kaplan . . . *Physiology, Pharmacology*
A.B., Dartmouth College,; Ph.D. Harvard University

Paul L. Sandi . . . . *Physiology, Pharmacology*
M.D., University of Milan

Solomon H. Gordon . . *Chemistry*
B.S., Massachusetts State College; Ed.M., Boston University

C. Ruggles Smith . . . *Medical Jurisprudence*
A.B., LL.B., Harvard University;
Litt.B., A.M., Columbia University

Theodore Fischer-Galati . *Medicine*
M.D., University of Vienna; M.D., University of Rome

Israel M. Kamens . . . *Medicine*
A.B., Harvard University; M.D., Boston University

Charles R. Forshner . . *Farrier*

Elizabeth A. Quigg . . *Technician*

Frances J. Benson . . *Technician*

Bettina Hirsch . . . *Technician*

Faculty of The Preveterinary School

Joseph I. Cheskis, *Dean* . *Modern Languages*
A.B., University of Paris; A.M., Ph.D., Harvard University

William Northrop Morse . *English*
A.B., Amherst College; A.M., Harvard University

Albert Alan Rogers . . *Anthropology, History*
B.A., University of Richmond;
B.S. Ed., M.A., Ph.D., University of Virginia

Albin Goldschmied . . *Spanish, Physchology*
Ph.D., University of Prague

I. Jacques Yetwin . . . *Biology*
B.S., Rutgers University; M.S., University of Chicago;
M.D., Middlesex University

Benjamin Hecht . . . *Mathematics, Chemistry*
B.S., Ph.C., Massachusetts College of Pharmacy;
M.S., Ph.D., University of Wisconsin

Peter Gruenwald . . . *Biology*
M.D., University of Vienna

Organization and Objectives

The School of Veterinary Medicine was chartered by the legislature of the Commonwealth of Massachusetts as a department of Middlesex University, with authority to confer the degree of Doctor of Veterinary Medicine. The School aims to provide a thorough, systematic education in all the basic and applied sciences of veterinary medicine, and to train veterinarians so that they may adequately deal with the investigation, prevention, and cure of animal diseases.

The Trustees of Middlesex University undertook the establishment of a veterinary department for two reasons,—because they realized that there was great need for such a school in New England, since the opportunity for prospective students from this section to secure admission to veterinary schools elsewhere was extremely limited; and because the University was ideally located and equipped to develop a veterinary school on the spacious campus that already accommodated the College of Arts and Sciences and the School of Medicine.

Location, Buildings, and Facilities

The Veterinary School and Animal Hospital, a building designed and erected exclusively for the use of the School of Veterinary Medicine on the 100-acre Waltham campus of Middlesex University, was dedicated by Dean Crossman in October, 1940, before an impressive gathering of veterinarians, state and municipal officials, educators, and students.

The new Veterinary Building is modern in architectural design and is constructed of brick and reinforced concrete. Three stories high, it is rectangular in shape, covering a ground area of over 10,000 square feet, and a wide white-walled interior court assures excellent lighting for all the laboratories.

The front or south wing of the Veterinary Building contains administration offices and students' locker rooms on the ground floor, the junior and senior classrooms on the first floor, and the freshman and sophomore classrooms on the second floor. The classrooms are large, well lighted, and air-conditioned; and are

each equipped with 80 fixed seats with movable arms for note-taking, and with blackboards, charts, and an instructor's platform, the beveled rail of which contains a seating chart showing the place assigned each student.

The east and west wings house the four large teaching laboratories, each with an area of 1900 square feet. The Anatomy Laboratory is equipped with mounted skeletons of domestic animals, a comprehensive collection of animal bones, dissecting tables of varying sizes, an overhead crane for the handling of large carcasses, and underfloor tanks for the storage of material. Adjacent to the anatomy laboratory is a smaller room for prosection and the preparation of materials for dissection, and an office for the teaching staff of the department.

The first floor of the east wing is occupied by the Bacteriology-Pathology Laboratory, equipped with autoclaves, incubators, refrigerators, centrifuges, microtomes, a large collection of strains of micro-organisms, pathological slides, gross specimens, and all the necessary apparatus for instruction and research. Long benches run along the sides of the laboratory, with connections for electricity, gas, and water and lockers for microscopes and other equipment, at each student desk. The separate research laboratories and offices of the departments are adjoining this laboratory.

The departments of Chemistry, Physiology, and Histology occupy the upper floor of each wing. The Chemistry Laboratory in the east wing contains 128 student lockers, completely equipped with glassware, and other apparatus. The benches are supplied with standard reagents, gas and water, and a sink extends between each row of benches. This laboratory is used one semester for organic and the second for biological chemistry, and next to it is the chemistry storeroom and the departmental office and research laboratory.

The Histology Laboratory uses the same type of equipment as has already been described in the Pathology Laboratory for the preparation of slides, and contains wide benches along the window, where the students use their microscopes and make their drawings. During the second semester this teaching laboratory is available to the Physiology Department and is equipped with kymographs, manometers, basal matabolism machinery, and the usual apparatus for this study.

The ground floor of the north wing houses the Large-Animal Hospital, and contains the operating room and stalls for the treatment of such domestic animals as horses, cows, sheep, and goats. The operating room is equipped with an electrically-driven, hydrostatic-lift, operating table, that can accommodate large animals and convey them for a vertical to a horizontal position, suitably restraining them pending the administration of an anesthetic. There is no communication between the hospital quarters and those parts of the building devoted to preclinical teaching.

The second and third floors of the north wing contain research and private laboratories, offices of department-heads, and stock room. Slides, media, cultures, and other materials for use in the teaching laboratories are prepared in these smaller laboratories by assistants and technicians attached to the departmental staffs.

Not far from the main Veterinary Building is the Small-Animal Hospital and Clinic, a long one-story stucco and brick structure, built on an arc, and covered with a high-pitched overhanging roof of green asbestos shingles. The office and reception room of the clinic occupy a circular room with a conical roof, at the center of the inner arc of the building, facing one of the campus roadways across a formal flowerbed. Dwarf evergreens spaced between the sixteen windows add to the pleasing aspect of the approach to the clinic. The rear or outer arc of the building is at the top of a long slope towards the street, and opens into exercise yards for convalescent animals. The interior contains operating and treatment rooms and a large area for the special cages in which the smaller animals are confined during their stay at the hospital. The clinic is equipped with a well-stocked pharmacy, complete X-ray and fluoroscopic apparatus, and a photographic dark room.

The buildings of the department of animal husbandry and the University's agricultural developments are situated in convenient proximity to the Veterinary Building. The dairy barns, three red-brick two-story structures, flanked by tall silos and a water tower, and enclosing a corral with a serpentine brick wall on its fourth side, house the University's herd of registered cattle. Each of the four breeds, Jersey, Guernsey, Ayrshire and Holstein, is represented. Other related structures include the piggery, the sheep and goat sheds, the poultry-yards, the aviary, many kennels, and a large maintenance building that has accommodation for many of the laboratory animals, and a segregated room for post-mortem examinations.

The Department of Conservation, Division of Fisheries and Game, of Massachusetts has issued to Middlesex University a license to maintain wild animals and game birds, and there is now being established on the campus a collection of non-domestic animals.

Library

The three departments of the University located on the Waltham campus, the College, the Veterinary School, and the Medical School, previously maintained three separate libraries in their individual buildings. In order to make all this material more readily available to the entire student body, these collections of scientific and cultural texts, reference books, and periodicals are being consolidated in a University Library, and housed in a handsome two-story fieldstone building midway between the main building of the Veterinary School and the nearby Small Animal Hospital. The first floor of the Library will contain extensive reading rooms, equipped with modern fluorescent lighting; open shelves for volumes and current periodicals most in demand; and offices for the Librarian and his staff. Book stacks and cubicles for research will be located on the second floor. The remodelling of the building to house the University Library is now in progress.

Student Accommodations

The first student housing unit on the Middlesex University campus, a group of ten colonial bungalows, was completed in 1940. Each student cottage contains four rooms and a bath with shower, and accommodates four students. Two of the rooms are somewhat larger than the other two, and there is a corresponding difference in the rental charge.

The bungalows are Cape Cod colonial in design and embody the most modern methods of construction. They are heated by automatic gas furnaces of the latest type. The dormitory group is conveniently located on the campus within a few minutes walk of the veterinary buildings. The ten bungalows are grouped about a rectangular lawn, traversed by a paved road, which leads into the campus from Route 20, the Post Road from Boston to New York.

Veterinary students may secure rooms in the dormitories for $135 to $165 per student for the school year of 33 weeks. The rental is payable in three equal installments on the date set for the payment of the tuition. Since the number of dormitory rooms available is limited, applications from individual students, from those who wish to be roommates, or from groups of four who want to share a cottage should be filed as early as possible. In order for a room to be reserved the application must be accompanied by an advanced payment of $25, which is refundable only at the discretion of the University.

The University provides the necessary furniture, heat, hot water, electricity and maid service for the dormitories. Student occupants have to provide themselves with sheets, pillow cases, blankets, linen, towels, and any furnishings in the way of decorations and rugs. In order that the appearance of the cottages may be uniform the University will provide curtains at cost for each student room.

For the convenience of students who are unable to secure accommodations in the University dormitories a list of approved rooming houses within walking distance of the campus is maintained. Room and board may be secured with private families at an average weekly cost of $14, and there are a number of conveniently located restaurants.

There is ample parking space on the campus for students who travel by automobile. Those who come to the University from other states are urged to leave their cars at home, because of the wartime restrictions on non-essential driving. The Massachusetts law prescribes that non-resident motorists who keep their cars in the state for more than 30 days must conform with the local requirement that all automobiles be covered by liability insurance.

Scholarships, Loans, and Awards

Middlesex University has no scholarship endowment, but individual gifts often make available a limited number of scholarships covering in full or in part tuition in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to an-

other depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and with the Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

The United States Commissioner of Education has approved the accelerated program of the School of Veterinary Medicine for the purpose of the Student War Loans program, and an allotment of over $45,000 has been made to the University for the assistance of its needy medical and veterinary students through the fiscal year ending June 30, 1944. This program enables professional students within two years of graduation to borrow up to $500 for tuition and other expenses during a stated period, and to repay the loan at a low interest rate over a period of four years after receiving their degrees.

Middlesex University participated in the federal student work program of the National Youth Administration until it was discontinued in 1943, and was assigned four quotas in the civilian pilot training program of the Civil Aeronautics Authority.

The following prizes are awarded annually to students who have distinguished themselves in certain phases of the veterinary course: the Dean's Prize to the student attaining the highest grades in all subjects; the Leo Weiss Prize to the senior student attaining the highest grades in surgery and obstetrics; the T. Wong Prize to the senior student attaining the highest proficiency in Pathology; the Barbara Joan Beck Prize to the sophomore student whose average is highest in pharmacy, pharmacology, and materia medica; and the Martin M. Kaplan Prize to the best student in veterinary preventive medicine and public health.

Requirements for Admission

The School of Veterinary Medicine is coeducational. The requirements for admission may be satisfied by graduation from a recognized college, or by the successful completion of a standard high school course and college work amounting to at least 30

semester hours and including 6 semester hours each of English, Inorganic Chemistry, and General Zoology. It is preferred that the candidate also present college credits in Physics, Mathematics, Botany, and Animal Husbandry.

The entrance requirements will be advanced to a minimum of two years of preveterinary college work after the termination of the war.

Candidates who are high school graduates, but who have not yet completed the required college work, may enroll in the Junior College for their preveterinary course. A place is reserved in the School of Veterinary Medicine for all those who successfully complete the preveterinary course at Middlesex University. Attention is directed to that part of the catalogue describing the preveterinary course and the seven-year combined course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. A more detailed description of these courses is contained in the announcement of the Junior College.

Due to the exigencies of wartime transportation, the requirement that a candidate must appear for a personal interview before acceptance to the veterinary school may be waived in the case of applicants from outside Massachusetts. Present preveterinary students who appear to possess a proper aptitude for veterinary study may be accepted for a future entering class, subject to the satisfactory completion of all requirements for admission before the beginning of the course.

Candidates for admission are required to make application upon blanks which may be obtained from the school. All questions contained in the application blank must be answered in full, and the applicant must file a recent unmounted photograph. The application must be submitted accompanied by a verification fee of ten dollars. The Committee on Admissions reserves the right to refuse admission to any applicant without stating any reason for its action. Credentials and photographs which are filed by candidates for admission become the property of the university, and are kept permanently in the files.

During the continuance of the wartime accelerated program the School of Veterinary Medicine will enroll entering classes at intervals of nine months. The standard veterinary course of four school years of thirty-two weeks each will be given within a period of

three calendar years by the elimination of all vacations except Christmas week and a recess between sessions. New classes will be enrolled on April 5, 1944, and on January 10, 1945.

Selective Service

Activity and Occupational Bulletin 33-6, issued by the Selective Service System, permits of the occupational deferment of full-time preveterinary students who have been accepted for future enrolment in veterinary school, and who will complete their pre-veterinary course within 24 months of the date of certification. Veterinary students in good standing are eligible for deferment if the school certifies that they are competent and give promise of the successful completion of their course and of becoming recognized doctors of veterinary medicine. Registrants in the above categories may be placed in classification 2A by their local draft boards.

The Committee on Admissions acts upon applications as soon as the essential academic transcripts and recommendations have been received, in order that successful candidates can matriculate without delay and become eligible for deferment as students in training for an activity essential to the health, safety, and welfare of the Nation.

Middlesex University does not at present participate in the Army or Navy Training Programs, and its veterinary students are in attendance on a civilian draft-deferred basis.

Applicants for admission to advanced standing must have the necessary qualifications for admission to the first-year class and must have satisfactorily completed one or more years of instruction in an approved School of Veterinary Medicine.

Special students may be admitted for selected courses if they provide evidence of satisfactory previous training; such students will not, however, be accepted as candidates for a degree.

Fees and Expenses

The cost of operating a veterinary school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards.

The requirements of veterinary education are such that only a

limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the veterinary course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his education, he may apply for a leave of absence, and every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable by postal money order, check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham 54, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable under any circumstances, since each application involves secretarial work and receives the careful attention of the administrative staff. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable each year by candidates for admission or re-admission to the School, when they are notified that their applications have been acted upon favorably. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is to reserve a place for the matriculant, and does not constitute part of the tuition.

The tuition fee of $300 is charged for each year of instruction in the School of Veterinary Medicine. This fee is payable in three equal installments on the dates indicated on the University Calendar. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. The tuition fee in the Preveterinary Course is $200 a year.

No tuition payment is subject to refund, except in the case of students required to withdraw from school by operation of the Selective Service law, who will be granted a refund for any unearned portion of tuition and a leave of absence until such time as they are able to return to school.

Any student whose installment of indebtedness to the School

remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Executive Committee, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Veterinary Medicine, upon notification by the Bursar.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special examination, except in the case of illness, is subject to a charge of ten dollars.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

First and second year students are required to possess satisfactory microscopes, fitted with low, high power, and oil-immersion objectives. New instruments are not available during war time, and students are urged to make every effort to obtain suitable used microscopes. The University will arrange for the sale or rental of as many instruments as possible from its upper-classmen and alumni. Microscope lockers are available, but the University assumes no responsibility for the safety of property stored in any of its buildings.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Attendance

Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account

of illness, or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Examinations and Promotion

Admission to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse re-admission or promotion to any student.

The veterinary course extends over a period of four school years, and the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Committees on Promotion, consisting of Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Committees on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take examinations for the removal of conditions, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations may, at the discretion of the Committees on Promotion, be given an opportunity to take examinations for the removal of

their conditions during the scheduled re-examination period before the opening of the school year. A fee of five dollars is charged for every such re-examination. Students who are eligible for re-examinations must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the veterinary profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Requirements for Graduation

Each candidate for the degree of Doctor of Veterinary Medicine must have fulfilled the following requirements:

1. He must be at least twenty-one years of age and of good moral character.
2. He must have satisfactorily completed the four-year course in separate school years.
3. If he has been admitted to advanced standing from some other school he must have completed the last year at Middlesex University.
4. He must have received a passing grade in each subject of the curriculum and he must have presented a satisfactory record of clinical work.
5. He must have furnished a personal photograph and his signature for identification.
6. He must have satisfied all indebtedness to the University, including the graduation fee of $25.00.

Veterinary Medical Society

All students enrolled in the Veterinary School are eligible for membership in the Middlesex University Veterinary Medical Society. This organization has for its purpose the promotion of veterinary medicine, and its members meet periodically to listen to addresses by authorities in various phases of veterinary science, and to discuss topics of interest to the profession.

In 1942 the first graduating class formed an Alumni Veterinary Association.

Prescribed Course of Study

The course of instruction extends over four school years. Each academic year is divided into two semesters of not less than sixteen weeks, exclusive of holidays and vacation. The basic veterinary sciences are studied in the first two years, by lectures, demonstrations, and laboratory exercises. The third and fourth years are devoted to practical clinical courses. Each course meets, in regard to its total hours, the standards set by the outstanding veterinary schools in the country.

Beginning with the session of 1942-1943, *the Veterinary School adopted an accelerated program of instruction for the duration of the war. By the elimination of the usual vacations, the standard four-year course is now compressed into three calendar years.*

The curriculum includes over 4000 hours of instruction in the class-room, laboratory, and clinic, as scheduled in the listing of courses that follows. The figures in parenthesis refer to the number of hours a week devoted to each course—the lefthand figure represents class-room instruction and the right hours in the laboratory or clinic.

First Year

First Semester		*Second Semester*	
Anatomy 1	(2-12)	Anatomy 3	(2- 6)
Anatomy 2	(2- 6)	Anatomy 4	(2- 9)
Animal Industry 1	(2- 0)	Animal Industry 2	(2- 0)
Chemistry 1	(2- 6)	Chemistry 2	(2- 6)
Pharmacology 1	(1- 0)	Pharmacology 2	(2- 0)
		Pharmacology 3	(1- 3)

Second Year

Anatomy 4	(2- 6)	Animal Industry 4	(2- 0)
Animal Industry 3	(2- 0)	Bacteriology and Immunology 2	(2- 3)
Animal Industry 5	(0- 2)	Medicine 1	(1- 0)
Animal Industry 6	(2- 0)	Medicine 8	(2- 4)
Bacteriology and Immunology 1	(3- 6)	Parasitology 2	(1- 3)
Parasitology 1	(2- 6)	Pathology 1	(2- 6)
Physiology 1	(2- 0)	Physiology 2	(2- 6)
Preventive Medicine, Public Health 1	(2- 0)		

Third Year

Clinics 1	(0-10)	Clinics 2	(0-10)
Medicine 2	(4- 0)	Medicine 3	(1- 0)
Medicine 3	(1- 0)	Medicine 4	(3- 0)
Obstetrics 1	(2- 3)	Medicine 6	(3- 0)
Pathology 2	(2- 4)	Pathology 3	(2- 4)
Pharmacology 4	(2- 3)	Surgery 2	(2- 0)
Surgery 1	(2- 0)	Preventive Medicine, Public Health 2	(2- 3)

Fourth Year

Animal Industry 7	(1- 1)	Animal Industry 7	(1- 1)
Clinics 3	(0-12)	Clinics 4	(0-12)
Clinics 5	(0- 2)	Clinics 5	(0- 2)
Clinics 6	(0- 2)	Clinics 6	(0- 2)
Medicine 5	(2- 0)	Jurisprudence 1	(1- 0)
Medicine 7	(2- 0)	Medicine 9	(1- 0)
Pathology 4	(3- 0)	Medicine 10	(1- 0)
Surgery 3	(1- 3)	Surgery 4	(2- 3)
		Surgery 5	(1- 1)
		Preventive Medicine, Public Health 3	(1- 0)
		Preventive Medicine, Public Health 4	(2- 0)

Departments in the School of Veterinary Medicine:

Department of Anatomy
Department of Animal Industry
Department of Pathology and Parasitology
Department of Physiology and Pharmacology
Department of Medicine, Surgery, and Obstetrics
Department of Preventive Medicine and Public Health
Department of Bacteriology and Immunology
Department of Chemistry

Anatomy

1. *General and Special Anatomy.* The material covered includes osteology, arthrology, myology, splanchnology, neurology, and the blood and lymph vascular systems. Dissection of the systems are supervised in the laboratory utilizing horse cadavers.

2. and 3. *Histology and Embryology.* The microscopic structure of cells, tissues, and organs; histophysiology; the prenatal development of domestic animals; microscopic and histologic technique.

4. *Comparative and Applied Anatomy.* Differences in structure of the various systems and organs in the ruminant, hog, dog, and fowl are studied in reference to the horse. Cadavers of each of these animals are utilized for dissection. Regions later used for surgery are considered in detail.

Animal Industry

1. *Breeds of Livestock.* A consideration of the origin, development, and present status of the different breeds of livestock.

2. *Market Types and Classes.* The origin, history, development, value, and uses of types and classes of animals on our livestock markets.

3. and 4. *Animal Nutrition.* Soils; the classification, preparation, and use of feeds in livestock production.

5. *Zootechnics.* Methods of livestock raising and judging.

6. *Poultry Husbandry.* The principles of care and management of poultry.

7. *Meat Inspection.* Lectures and field trips to nearby packing plants cover the principles of meat inspection as recommended by the United States Bureau of Animal Industry.

Bacteriology and Immunology

1. The fundamental principles of bacteriology are covered in the lectures and individual study of the bacteria in the laboratory is supervised with special attention devoted to organisms important in veterinary medicine.

2. A continuation of bacteriological work and a study of the principles of immunology. Each student performs his own immunological studies in the laboratory and is required to submit a paper on a special problem in immunology.

Chemistry

1. *Organic Chemistry.* A consideration of organic chemical compounds and reactions.

2. *Physiological Chemistry.* A study of proteins, fats, carbohydrates, and their role in nutrition; and the laboratory analysis of blood and urine.

Clinics

1. and 2. *Hospital Clinics.* The classes are evenly divided into sections for Large Animals, Small Animals, Post Mortem Pathology, Clinical History, and Clinical Laboratory. These groups are rotated each week allowing the animals presented at Clinic to be followed through the various departments of the clinic for different types of examination.

3. and 4. *Hospital Clinics.* The same division of groups is followed. In these courses the students are allowed to treat animals under the supervision of the instructors.

5. *Ambulatory Clinic.* Groups of students accompany the instructors on visits to nearby farms to observe the diagnosis and treatment of diseased animals under field conditions.

6. *Clinical Seminar.* A combined student and faculty discussion of the more interesting cases encountered in the clinic. This seminar affords all the fourth year students an opportunity to learn of any unusual cases that they may have missed because of not being assigned to a particular clinic group at the time the case was presented.

Medicine

1. *Physical Diagnosis.* Methods of physical examination of the various domestic animals in the diagnosis of diseased conditions.

2. *Diseases of Large Animals.* A study of diseases of the respira-

tory, digestive, urinary, circulatory, and nervous systems; and of poisonings and skin afflictions, in the larger domestic animals.

3. *Diseases of Small Animals.* Infectious and noninfectious diseases of dogs and cats.

4. and 5. *Infectious Diseases of Large Animals.* A consideration of the cause, mode of dissemination, symptoms, diagnosis, treatment, and prevention of the important infectious diseases affecting large animals.

6. *Therapeutics.* The use of drugs and pharmaceutical preparations in the treatment of animal disease.

7. *Poultry Diseases.* Infectious, noninfectious diseases, and parasites of poultry; their cause, symptoms, diagnosis, treatment, and prevention.

8. *Clinical Diagnosis.* A study of the urine and blood in disease. Laboratory technique and interpretation of the findings are covered in the laboratory exercises.

9. *Radiology.* The fundamentals of X-Ray and fluoroscopy, and their use in the diagnosis and treatment of injury and disease.

10. *Ophthalmology.* Diseases of the eye; prevention, diagnosis, and treatment.

Pathology

1. *General Pathology and Histopathology.* Alterations in normal structure and function caused by disease. Slides and pathological specimens are studied in the laboratory.

2. and 3. *Systemic Pathology and Histopathology.* The study of tumors and other diseased conditions as they affect various systems of the body. Slides and gross pathological specimens.

4. *Pathology of Infectious Diseases.* The specific pathological changes that occur in the various organs as an aid to the diagnosis of infectious diseases. Gross pathological specimens are studied.

Parasitology

1. and 2. The classification, morphology, and life cycles of the parasites that affect domestic animals; the treatment and control of diseased conditions caused by parasites.

Physiology

1. and 2. A comprehensive study of the functions of the systems and organs in the animal body. Functional variations observed in the different domestic animals are pointed out during the study of each system. The laboratory work emphasizes experimental technique and a study of metabolism.

Pharmacology

1. *Medical Botany.* A consideration of plants, with special reference to poisonous plants found in the United States.

2. *Materia Medica.* The origin, and the physical and chemical properties of important drugs.

3. *Pharmacy.* Pharmaceutical methods and preparation of drugs.

4. *Pharmacology.* The action of the important groups of drugs on the body. Studies of the action of these drugs are undertaken on normal animals in the laboratory.

Surgery

1. and 2. *Elements of Surgery.* Restraint, anesthesia, wounds and wound treatment, asepsis and antisepsis, inflammations, sutures and suturing, bandaging and fractures.

3. and 4. *Operative Surgery.* The important surgical procedures faced in veterinary practice. Surgical exercises are performed on cadavers in the laboratory sessions.

5. *Podology.* A detailed consideration of the hoof structure in equines and bovines. Surgical exercises are performed in the laboratory.

Obstetrics

1. Normal and abnormal parturition in the different domestic animals. Obstetrical exercises are performed on a dummy utilizing fetuses obtained from a local slaughtering establishment. Rectal examinations are performed by the students on cows to acquaint them with the art of diagnosing pregnancy and genital diseases. Artificial insemination, sterility, and care of the newborn.

Preventive Medicine and Public Health

1. *Sanitary Science.* A consideration of disinfection and disinfectants, soil biology, water purification, sewage disposal, food sanitation, insect and rodent control, and ventilation. Field trips to nearby water purification and sewage disposal plants are made.

2. *Milk Sanitation.* A study of the production and sanitation of milk, including pasteurization, barn practices, and diseases transmitted through milk. Laboratory exercises are conducted in the examinations of milk for bacteria, fat, adulteration, and pasteurization.

3. *Epizootiology.* This course considers the phenomena of disease from a mass or herd standpoint. Factors conducive to the spread or limiting of epizootics are discussed.

4. *Public Health Principles.* Public health administration in the United States is discussed with special emphasis on the role of the veterinarian. An attempt is made to acquaint the student with the important human communicable diseases and the use of vital statistics in order to prepare the future veterinarian for positions on local community boards of health.

Jurisprudence

1. A discussion of the legal principles which pertain to the practice of veterinary medicine, and the duties, privileges, and obligations of a veterinarian; of the law of contract, agency, evidence, and negligence; and of statutes regulating licensure, public health, and the control of animals.

PREVETERINARY COURSES

Middlesex University Junior College is a member of the New England Junior College Council and of the American Association of Junior Colleges.

The Junior College offers a one-year preveterinary course designed to fulfill the requirements for admission to the School of Veterinary Medicine, and the University reserves a place in the first-year class of the School of Veterinary Medicine for all applicants who successfully complete the preveterinary course in Middlesex College.

The preveterinary course covers thirty-two semester hours, and includes the following subjects:—

Subject	*Semester Hours*
Chemistry (General Inorganic)	8
English (Composition, Rhetoric, and Public Speaking)	6
Modern Language (French, German, or Spanish)	6
Mathematics, History, or Economics	4
Biology (Botany and Zoölogy)	8

The Seven-Year Combined College and Veterinary Course

The College of Arts and Sciences, in conjunction with the School of Veterinary Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. The first three years are spent in the College and devoted to preveterinary and cultural study, and the degree of Bachelor of Science is conferred upon the subsequent completion of the first year in the School of Veterinary Medicine.

The three-year preveterinary course includes the following subjects:

First Year

Subject	*Semester Hours*
English	6
Chemistry	8
Biology	8
Modern Language	6
Mathematics	4

Second Year

Subject	*Semester Hours*
English	6
Physics	8
Modern Language	6
Biology	8
Animal Husbandry	4

Third Year

Subject	*Semester Hours*
English	6
Animal Husbandry	6
Chemistry	8
Psychology	6
Social Science	6

Degrees

At Commencement Exercises, held at New England Mutual Hall, Boston, on the nineteenth day of February, 1943, the degree of Doctor of Veterinary Medicine was conferred on the following candidates:

Isaac Abrich, *cum laude* . . Providence, R. I.
Iowa State College

Joseph Beck, *cum laude* . . . Flushing, N. Y.
Ph.G., Brooklyn College of Pharmacy

Charles Henry Belford . . Laconia, N. H.
Middlesex University

Samuel Chay Bloom . . . Boston, Mass.
Santa Monica Junior College

Francis John Carniglia . . Windsor Locks, Conn.
Middlesex University

Sherman Lowell Coates . . Fitchburg, Mass.
Middlesex University

Arthur Burnside Cragin . . Wakefield, Mass.
Middlesex University

Richard Eugene Cugnasca . . Boston, Mass.
Tufts College

Harold Samuel Dulman . . Yonkers, N. Y.
Middlesex University

Richard Channing Dye . . Gloversville, N. Y.
Middlesex University

Albert Galen . . . . Atlantic City, N. J.
Gettysburg College

Seymour Glasofer . . . . Newark, N. J.
Iowa State College

William Louis Govone . . . Oxford, Ohio
Miami University

Ira Lawrence Halpert . . . Brooklyn, N. Y.
New York University

Theodore William Harris . . Brooklyn, N. Y.
B.S., St. John's University

James Hayward Leach . . . Wayne, Pa.
Villanova College

Marvin Weisman Leslie . . Passaic, N. J.
Kansas State College

William Levy . . . . . Bayonne, N. J.
Wagner College

Robert Gerard Lynch . . . Ballston Spa, N. Y.
Cornell University

Arthur James McCarthy . . Framingham, Mass.
Middlesex University

John Herbert McCaslin . . Oseola, Pa.
St. Bonaventure College

Jane Munlex O'Brien . . . Taunton, Mass.
Cornell University

Michael John Polino . . . Brooklyn, N. Y.
Long Island University

Harold Polinsky . . . . New York, N. Y.
Middlesex University

John Frederick Pomidor . . Hawthorne, N. J.
Paterson State Teachers' College

Nathan Samberg, *cum laude* . . New York, N. Y.
College of the City of New York

Joseph Louis Schulhof . . New York, N. Y.
Middlesex University

Edward Gerald Slade . . . Framingham, Mass.
Middlesex University

Earl Vincent Smith Temple University	Carlisle, Pa.
Sidney Stern College of the City of New York	New York, N. Y.
Edward Marc Umans Cornell University	Arverne, N. Y.
LeRoy Sanders Weinberg University of Pennsylvania	Philadelphia, Pa.
Raymond Weiner Villanova College	Philadelphia, Pa.
Robert Foster Wignall Middlesex University	Billerica, Mass.
Jacob Wittenberg Alfred University	Brewster, N. Y.
Arnold Jerome Zarett Wayne University	Edgemere, N. Y.

STUDENTS 1943-1944

Candidates for the Degree of Doctor of Veterinary Medicine

Fourth Year Class

Howard Clinton Adams . . Worcester, Mass.
Clark University

Cyril James Allen . . . Newport, R. I.
Middlesex University

Benjamin Barker . . . . Boston, Mass.
Middlesex University

Gabriel Belinsky . . . . Pawtucket, R. I.
Middlesex University

Myron Bernstein . . . . Far Rockaway, N. Y.
Pennsylvania State College

Lawrence Jay Bonn . . . New York, N. Y.
St. John's University

Thomas Boria . . . . Wilkinsonville, Mass.
Clark University

Raymond Vincent Burns . . Bayonne, N. J.
New York University
Ohio State University

Herbert Stephen Carlin . . Mt. Vernon, N. Y.
New York University

Matthew Carr . . . . Torrington, Conn.
The Municipal University of Omaha

Herbert Jay Cobbs . . . Waltham, Mass.
Pratt Institute
Middlesex University

Saul Howard Cohen . . . Brooklyn, N. Y.
State College of Washington

Ruth Miller Eagle . . . Paterson, N. J.
Middlesex University

Wallace Robert Eagle . . . Cameron, Mo.
Colorado State College

Charles Philip Engelberg . . Brooklyn, N. Y.
Cornell University

Frederick Calvin Fillmore . . Somerville, Mass.
Middlesex University

Martin Fish . . . . . Mt. Vernon, N. Y.
New York University
Middlesex University

Robert Forrest . . . . . New York, N. Y.
St. John's University

Harry Gorfein . . . . . New York, N. Y.
College of the City of New York

Melvin Nathaniel Grove . . Brooklyn, N. Y.
Clemson Agricultural College

William Sample Hicks . . . Burlington, Vt.
Vermont University

Edward James Hills . . . Gowanda, N. Y.
Ohio State University
Michigan State College

Irving Lewis Kamin . . . Brooklyn, N. Y.
St. John's University

Norman Ketover . . . . Brooklyn, N. Y.
Brooklyn College

Leonard Kohn . . . . Cleveland, Ohio
Ohio State University

Arthur Edward Lager . . . New York, N. Y.
St. John's University

Robert Lawrence . . . . Richmond Hill, N. Y.
Ohio State University

JAMES LIEBERMAN . . . . Richmond Hill, N. Y.
Cornell University

HAROLD FRENCH LINDER . . . Caldwell, N. J.
State College of Washington

MURRAY LORING . . . . . Lake Ronkonkoma, N. Y.
A.B., Brooklyn College

LAWRENCE ASHLEY MACLEOD . . Reading, Mass.
Middlesex University

FRANK HEWITT MADDEN . . . Syracuse, N. Y.
Syracuse University

JOHN MASON . . . . . Baltimore, Md.
Cornell University

VICTOR BORIS MERKIN . . . New York, N. Y.
New York University

PIERRE PHILLIP MORAND . . . Holbrook, Mass.
Middlesex University

JAMES EDWARD MOTTAU . . . Brockton, Mass.
Middlesex University

HYMAN NEWMAN . . . . . Philadelphia, Pa.
University of Pennsylvania
Pennsylvania State College

DONALD OLEN NOLL . . . . Palmerton, Pa.
Muhlenberg College
University of the Philippines

WALKER SEWARD POSTON . . Oakland, Cal.
St. Mary's College
University of the Philippines

ALVIN CARY ROGERS . . . Brooklyn, N. Y.
St. John's University

MORRIS AARON SHIFFMAN . . New York, N. Y.
College of the City of New York
Middlesex University

STEFAN MICHAEL STEFANIC . . Danbury, Conn.
Michigan State College

Milton Tatelbaim . . . Boston, Mass.
Middlesex University

Louis Vine . . . . . Brooklyn, N. Y.
Cornell University

Bernard Wilbur Waxman . . New York, N. Y.
New York University
Michigan State College

Irwin Warren Wayne . . . New York, N. Y.
B.S., Kansas State College

Samuel Winokur . . . . Boston, Mass.
Iowa State College

George Stanley Wood . . . Waltham, Mass.
Middlesex University

Third Year Class

Ptolemy Arthur Adams . . Waltham, Mass.
B.S., University of New Hampshire

Elliott Leonard Adler . . . Brooklyn, N. Y.
St. John's University

MacDavis Canada Begelfer . . New York, N. Y.
St. John's University

Sanford Raymond Blum . . Jersey City, N. J.
St. John's University

Norman Breslauer . . . New York, N. Y.
Middlesex University

Richard Nathaniel Davis . . Long Island, N. Y.
St. John's University

James Craig DeWitt . . . North Abington, Mass.
Middlesex University

Richard Vincent Donnellan . Brighton, Mass.
Middlesex University

Edwin Elias Epstein . . . Jamaica, N. Y.
Long Island University
Brooklyn College

Joseph Colombo Fabbricotti . . Norfolk, Mass.
Middlesex University

George Peter Faddoul . . . Marlboro, Mass.
Middlesex University

Stanley Henry Fenichel . . Brooklyn, N. Y.
St. John's University

Albert Budd Fenton . . . Houston, Tex.
Lafayette College
North Texas Agricultural College

Sidney Howard Finestone . . New York, N. Y.
Middlesex University

Harvey Roy Fischman . . . Brooklyn, N. Y.
A.B., Brooklyn College

Abraham Fishlin . . . . Brighton, Mass.
Middlesex University

Paul Jack Friedman . . . Passaic, N. J.
Colorado State College

Arthur Albert Gilbert . . New Rochelle, N. Y.
University of Washington
State College of Washington

Abraham Grossman . . . New York, N. Y.
College of the City of New York
New York University

Arthur Francis Hayden . . Dedham, Mass.
Alabama Polytechnic Institute

Robert D. Henderson . . . Accord, N. Y.
St. John's University

Richard Lawrence Hill . . Littleton, N. H.
Middlesex University

Martin Leon Hoffman . . . Brooklyn, N. Y.
College of the City of New York
St. John's University

Levon Kalantar . . . . Fayetteville, Ark.
New York University
University of Arkansas

David York Kaufman . . . Hartford, Conn.
Hartford Federal College
Middlesex University

Sely Kovitch . . . . . Providence, R. I.
Middlesex University

Leon Aaron Lecht . . . Providence, R. I.
Middlesex University

Seymour Leopold . . . . Brooklyn, N. Y.
Cornell University

Leonard Isadore Lewin . . . Pine Bluff, Ark.
University of Arkansas

Abraham Linder . . . . Brooklyn, N. Y.
Long Island University

Clarence Francis Manziano . Jersey City, N. J.
B.S., St. Peter's College
New Jersey State Teachers College

Maxwell Martus . . . . Malden, Mass.
Middlesex University

Herbert Nagin . . . . Brooklyn, N. Y.
College of the City of New York
Brooklyn College

Seymour Jay Ornstein . . . New York, N. Y.
Kansas State College

Francis Thomas Pallotti . . Hartford, Conn.
University of Connecticut

Manfred Parker . . . . Albany, N. Y.
Siena College

EDGAR IRWIN PARVEY . . . Providence, R. I.
Michigan State College

NATHAN POLLACK . . . . Brooklyn, N. Y.
Cornell University

IRVING PUDALOV . . . . Brooklyn, N. Y.
Brooklyn College

JASON ALLEN RAYMOND . . . Brookline, Mass.
University of Alabama
Middlesex University

THEODORE HOWARD REICH . . Brooklyn, N. Y.
Brooklyn College

SAMUEL IRVING ROTHSTEIN . . Amenia, N. Y.
A.B., New York University

RAYMOND RUSSO . . . . Brooklyn, N. Y.
Brooklyn College
Cornell University

MELVIN SACKS . . . . New York, N. Y.
State College of Washington

EDWARD SAURIS . . . . Lawrence, Mass.
Middlesex University

HERBERT SCHEIN . . . . East Lansing, Mich.
Cornell University
Michigan State College

LEON SCHWARTZ . . . . New York, N. Y.
State College of Washington
New York University

IRWIN WALTER SCHWARTZMAN . New Haven, Conn.
Ohio State University

JACK SELIGMAN . . . . Brooklyn, N. Y.
College of the City of New York
Cornell University

LIONEL AARON SHAFFRO . . . New York, N. Y.
Cornell University

Jacques Murray Shapiro . . New York, N. Y.
St. John's University
Brooklyn College

John Alexis Somers . . . Jersey City, N. J.
St. Peter's College

Raymond Francis Stratton . . Long Island, N. Y.
Oglethorpe University
Lehigh University

Harvey George Tableman . . Livingston Manor, N. Y.
Cornell University

Louis Tochen . . . . Brooklyn, N. Y.
St. John's University

Benjamin Weiner . . . . Malden, Mass.
Middlesex University

Donald Bernard Winters . . New Haven, Conn.
Middlesex University

Edward Angelo Zullo . . . Natick, Mass.
Middlesex University

Second Year Class

Milton Altshuler . . . Brooklyn, N. Y.
Middlesex University

David Norman Bader . . . New York, N. Y.
College of the City of New York

Edward Abraham Bassinov . . Sharon, Mass.
Middlesex University

Stanley Burton Bienstock . . New York, N. Y.
Middlesex University

Henry Birne . . . . . Brooklyn, N. Y.
Long Island University

Sidney Jay Brittner . . . New York, N. Y.
Middlesex University

Mauro Gregory Carbone . . New York, N. Y.
B.S., College of the City of New York

Frederick William Cardwell . Schenectady, N. Y.
Syracuse University
Middlesex University

Milton Carter . . . . New York, N. Y.
College of the City of New York

Raymond Louis Dumas . . . Southbridge, Mass.
Middlesex University

Edwin Epstein . . . . New York, N. Y.
New York University

Kenneth Jacob Feldman . . Brooklyn, N. Y.
Brooklyn College

Arthur Fishman . . . . New York, N. Y.
B.S., Franklin & Marshall College

Stuart Stanley Friedman . . New York, N. Y.
St. John's University

Lawrence Jasha Glasser . . New York, N. Y.
College of the City of New York

Carl Bernard Golden . . . New York, N. Y.
Long Island University

James William Goris . . . Manhasset, N. Y.
St. John's University

Gilbert Green . . . . New York, N. Y.
New York University

Martin Lee Greenfield . . Patchogue, N. Y.
St. John's University

Harold Bernard Gursha . . Brockton, Mass.
Middlesex University

Norman Herbert . . . . Jamaica, N. Y.
New York University

Leonard Jackel . . . . New York, N. Y.
New York University

Herbert Aaron Javorsky . . Brooklyn, N. Y.
St. John's University

Jack Elliot Kampner . . . Waterbury, Conn.
Providence College
Middlesex University

Alvin Kaplan . . . . . Union City, N. J.
A.B., New York University

Mortimer Kramer . . . . . New York, N. Y.
B.S., College of the City of New York

Irving Lieberman . . . . . Brooklyn, N. Y.
Brooklyn College

Martin Litwack . . . . . Malden, Mass.
Middlesex University

Edward Mazal . . . . . New York, N. Y.
St. John's University
Middlesex University

Francis William McGee, Jr. . Marlboro, Mass.
Middlesex University

Harold Maurie Okonowsky . . Passaic, N. J.
Middlesex University

Robert Reeves Potter . . . Pleasantville, N. Y.
Bard College

Algerd William Ramaika . . Haverhill, Mass.
Middlesex University
Michigan State College

Samuel Resnick . . . . . New York, N. Y.
New York University

Jack Bernard Robinson . . Brookline, Mass.
Middlesex University

Saul Emanuel Rogers . . . Brooklyn, N. Y.
New York University

Sheldon Rosenfeld . . . Brooklyn, N. Y.
Brooklyn College

Solomon Sauerhaft . . . New York, N. Y.
Brooklyn College

Seymour Lee Shepard . . . . Brooklyn, N. Y.
Brooklyn College
Cornell University

George Howard Silverman . . Brooklyn, N. Y.
Long Island University

Maurice Harry Skyer . . . Newburgh, N. Y.
Cornell University

Howard Allan Smith . . . Chelsea, Mass.
Middlesex University

Herbert Solar . . . . . Arverne, N. Y.
University of Alabama

Ireane Ruth Solomon . . . Dorchester, Mass.
Middlesex University

David Tanzer . . . . . Rockaway Park, N. Y.
Middlesex University

Richard Harold Wilkinson . . Frenso, Cal.
Fresno State College
La Sierra College

Morton Wolf . . . . . Mattapan, Mass.
Michigan State College
Ohio State University

First Year Class

Joseph Abrahams . . . . Danbury, Conn.
Middlesex University

Conrad Hugh Alper . . . Brooklyn, N. Y.
St. John's University

Lorraine Claire Beaman . . Dorchester, Mass.
Middlesex University

Jerome Beller . . . . Brooklyn, N. Y.
Brooklyn College

Seymour Bernard Bigman . . Brooklyn, N. Y.
New York University

Allen Francis Bonapart . . Mt. Vernon, N. Y.
University of Connecticut
Middlesex University

Norman Brandes . . . . Long Island, N. Y.
New York University

Anthony Ricardo Bucalo . . Brooklyn, N. Y.
New York University

Millard Burg . . . . Brooklyn, N. Y.
Brooklyn College

Philip Jerome Cohen . . . New York, N. Y.
Middlesex University

Robert Howard Cohn . . . Philadelphia, Pa.
Temple University

Marcus Jacob Dershowitz . . Mt. Vernon, N. Y.
New York University
Middlesex University

Alfred Albert DiDio . . . Jackson Heights, N. Y.
New York University

Alexander Don . . . . Jamaica, N. Y.
St. John's University

Virginia Rose Dorsay . . . Brooklyn, N. Y.
St. John's University

Arthur Franklin Dunn . . New York, N. Y.
College of the City of New York

Boris Ellison . . . . New York, N. Y.
St. John's University

Henry Louis Friedman . . . Boston, Mass.
Northeastern University
Middlesex University

MARK H. FRIEDMAN . . . Dorchester, Mass.
Cornell University

CHARLES GILVARGE . . . . Worcester, Mass.
Clark University

HENRY GOLDHIRSCH . . . New York, N. Y.
New York University

LEO SOLOMON GOLDSTON . . . Warren, Ohio
Youngstown College
Ohio State University

JOHN HAMILTON GUTTERIDGE . . Arlington, Mass.
Middlesex University

ROY R. HARADA . . . . Honlualoa, Hawaii
Whittier College
A.B., Earlham College

LEONARD HOLLANDER . . . Brooklyn, N. Y.
Brooklyn College
Middlesex University

ARTHUR YALE KAVOVIT . . . New York, N. Y.
St. John's University

EUGENE KEEVACK . . . . Brooklyn, N. Y.
St. John's University

EDWARD KRAMER . . . . Brooklyn, N. Y.
Cornell University

BENJAMIN KUTNICK . . . Brooklyn, N. Y.
Wayne University

LEONARD ROBERT LEVINE . . Detroit, Mich.
Cornell University

MELVIN LIEBERMAN . . . Albany, N. Y.
New York University

SAMUEL LONGER . . . . New York, N. Y.
University of Pennsylvania

JEROME IRWIN MANASHAW . . Philadelphia, Pa.
New York University

Philip Harold Mann . . . New York, N. Y.
Long Island University
University of Connecticut

Robert Stanley May . . . New Haven, Conn.
New York University

Solomon Morris Michaelson . Larchmont, N. Y.
College of the City of New York

Howard Henry Mishkin . . New York, N. Y.
College of the City of New York

Justin Jerome Parvey . . . New York, N. Y.
A.B., Brown University

Joseph Richard Prestia . . Providence, R. I.
B.S., Long Island University

Jerome Regunberg . . . Brooklyn, N. Y.
College of the City of New York
Middlesex University

Orlando John Ricciardi . . Brooklyn, N. Y.
College of the City of New York
St. John's University

Richard Paul Rose . . . New York, N. Y.
St. John's University

Edwin Frank Russo . . . Brooklyn, N. Y.
St. John's University

Ezra Schrenzel . . . . New York, N. Y.
Long Island University
Texas Agricultural and Mechanical College

Marvin John Sheffield . . New York, N. Y.
Cornell University

Elias Ralph Shemin . . . New York, N. Y.
Cornell University

Herman Sher . . . . Brooklyn, N. Y.
Brooklyn College

Alex Shoag . . . . . Meriden, Conn.
Wagner Memorial Lutheran College
Ohio State University

Chester Siegel . . . . New York, N. Y.
New York University

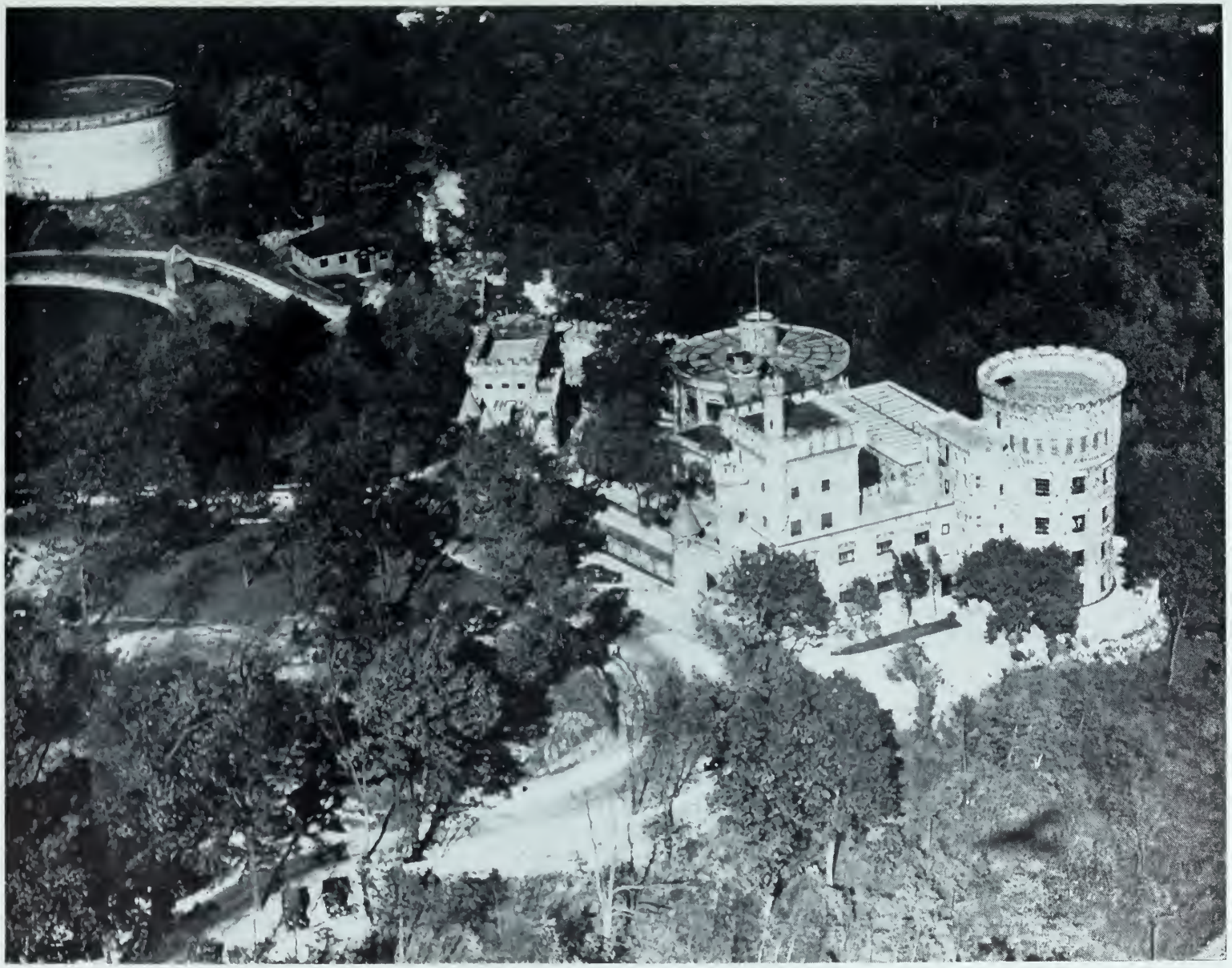
Marvin Jack Silverman . . Philadelphia, Pa.
University of Pennsylvania

Frederic Robert Stanton . . Belle Harbor, N. Y.
Ohio State University

Kenneth Norman Staples . . North Burwick, Maine
Middlesex University

Sylvia-Jane Whittemore . . Newton, Mass.
University of New Hampshire
Middlesex University

Marvin Wisch . . . . Brooklyn, N. Y.
Brooklyn College
New York University



Aerial View of the School of Medicine

University Library

Distribution by Colleges

Alabama Polytechnic Institute	1	New Jersey State Teachers' College	1
Alabama, University of	2	New York University	27
Arkansas, University of	2	Northeastern University	1
Bard College	1	North Texas Agricultural College	1
Brooklyn College	20	Oglethorpe University	1
Brown University	1	Ohio State University	9
Clark University	3	Pennsylvania State College	1
Clemson Agricultural College	1	Pennsylvania, University of	3
College of the City of New York	16	Philippines, University of	2
Colorado State College	2	Pratt Institute	1
Connecticut, University of	3	Providence College	1
Cornell University	18	St. John's University	29
Earlham College	1	St. Mary's College	1
Franklin and Marshall College	1	St. Peter's College	2
Fresno State College	1	Siena College	1
Hartford Federal College	1	Syracuse University	2
Iowa State College	1	Temple University	1
Kansas State College	1	Texas Agricultural and Mechanical College	1
Lafayette College	1	Vermont, University of	1
LaSierra College	1	Wagner Memorial Lutheran College	1
Lehigh University	1	Washington, State College of	6
Long Island University	8	Washington, University of	1
Michigan State College	7	Wayne University	1
Middlesex University	59	Whittier College	1
Muhlenberg College	1	Youngstown College	1
Municipal University of Omaha	1		
New Hampshire, University of	2		

Geographical Distribution of Students

Arkansas	2	New Hampshire	1
California	2	New Jersey	9
Connecticut	10	New York	123
Hawaii	1	Ohio	2
Maine	1	Pennsylvania	5
Maryland	1	Rhode Island	6
Massachusetts	39	Texas	1
Michigan	2	Vermont	1
Missouri	1		

Summary

Candidates for the Degree of Doctor of Veterinary Medicine

Freshman Class	54
Sophomore Class	47
Junior Class	58
Senior Class	48
	207

GIFTS AND ENDOWMENT

Middlesex University is authorized by the Massachusetts Legislature to receive and hold donations, legacies, and bequests of real and personal property to an extent not to exceed five million dollars, and to use such property or the income therefrom for its general educational purposes.

The School of Veterinary Medicine and the Animal Hospital are now in immediate need of substantial endowment funds. The Trustees will be glad to receive specific gifts of books, equipment, or material for the use of any department of the University; and would be very grateful for any donation to the endowment of the University.

Bequests may be made in the following form:

I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of.....dollars, to be applied to the general purposes of the University.

Contributions and bequests to the University are deductible for income and estate tax purposes in the manner and to the extent provided by law.

MIDDLESEX UNIVERSITY

JUNIOR COLLÉGE
Preprofessional Courses, Arts and Sciences

COLLEGE OF ARTS AND SCIENCES
A.B. and B.S. Degrees

SCHOOL OF MEDICINE
M.D. Degree

SCHOOL OF VETERINARY MEDICINE
D.V.M. Degree

BOSTON and WALTHAM — MASSACHUSETTS